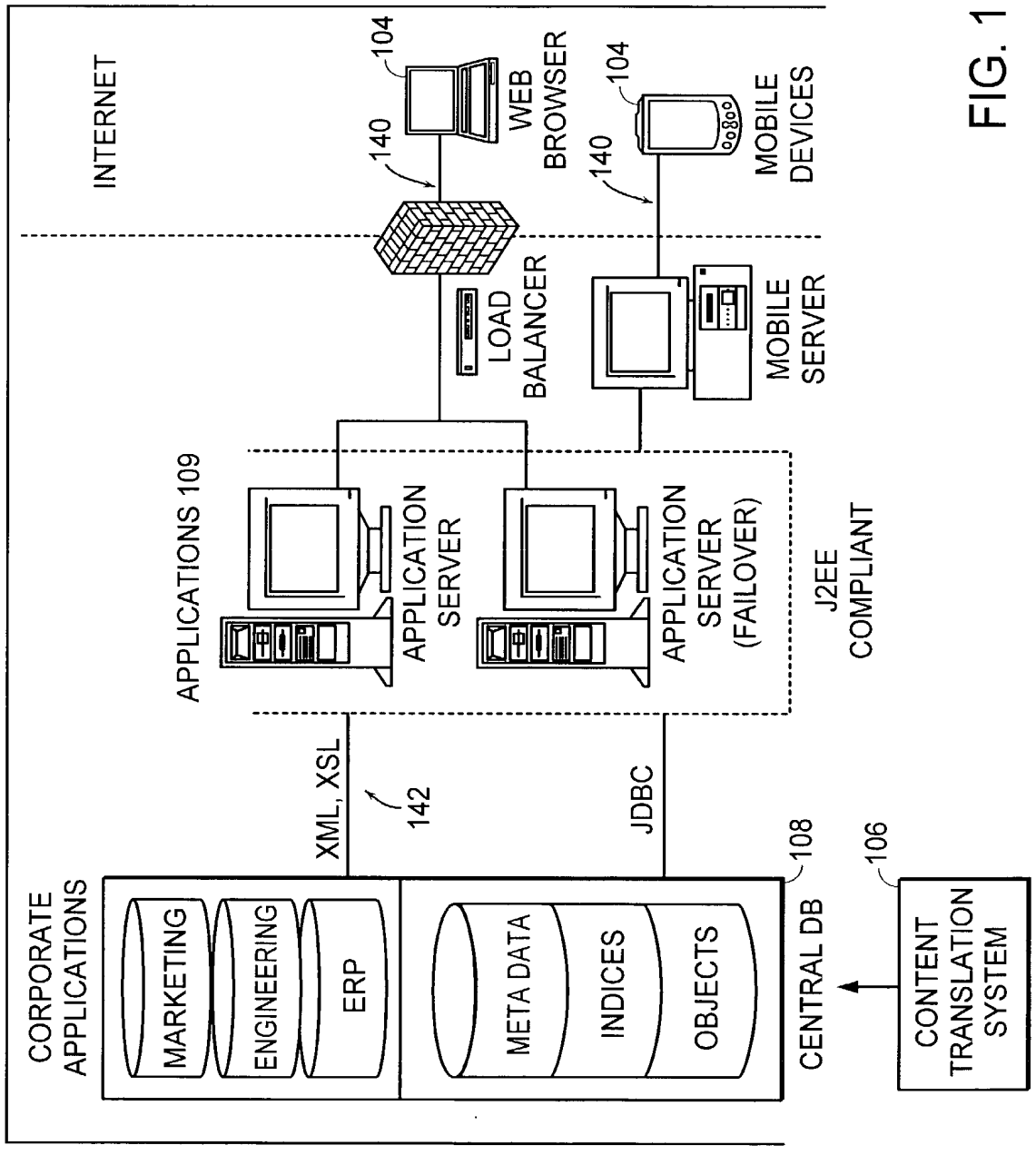

INTERNET
104
WEB BROWSER
140
104
MOBILE DEVICES
140
LOAD BALANCER
MOBILE SERVER
APPLICATIONS 109
APPLICATION SERVER
APPLICATION SERVER (FAILOVER)
J2EE COMPLIANT
XML, XSL
142
JDBC
CORPORATE APPLICATIONS
MARKETING
ENGINEERING
ERP
META DATA
INDICES
OBJECTS
108
CENTRAL DB
106
CONTENT TRANSLATION SYSTEM

FIG. 1

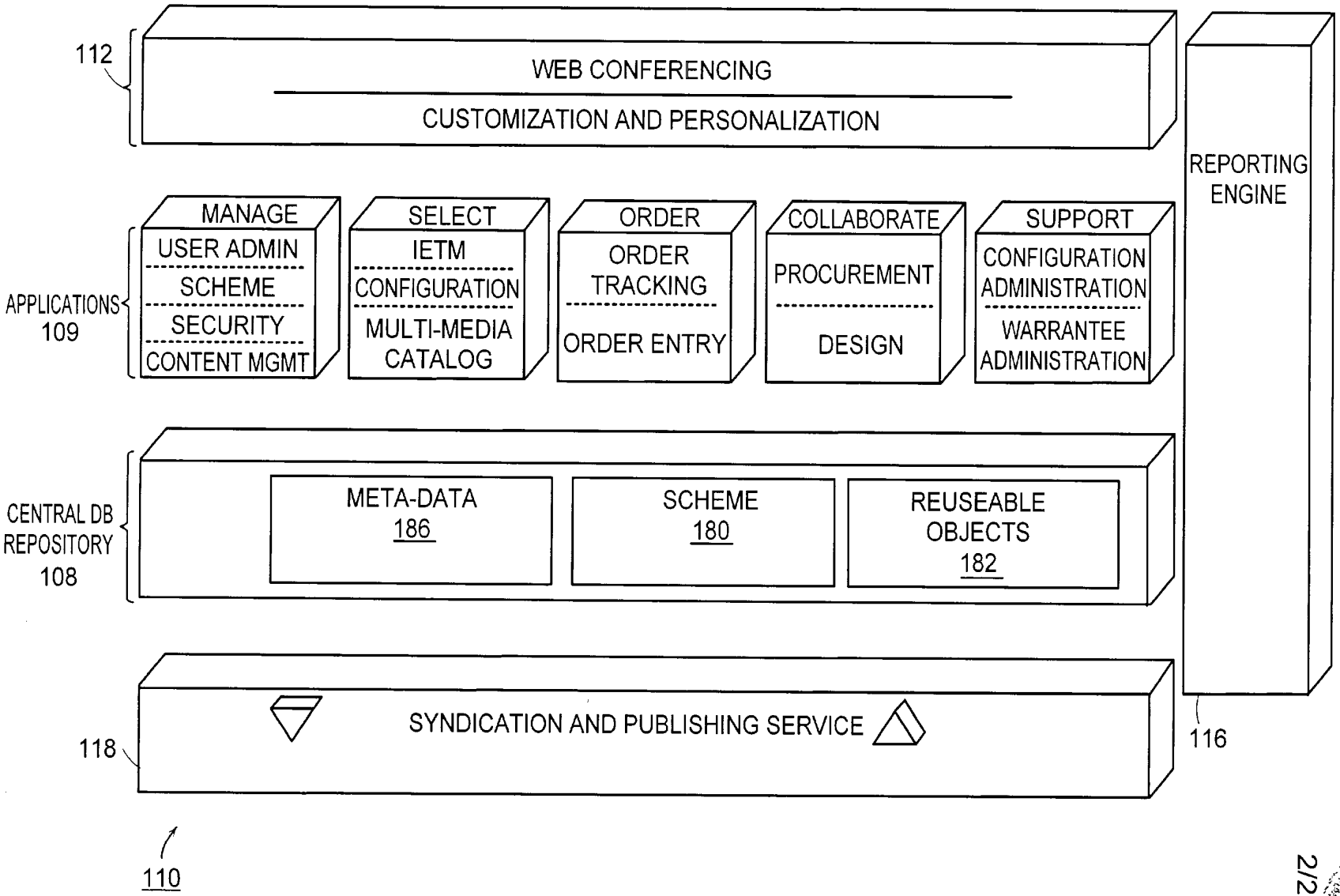

112
WEB CONFERENCING
CUSTOMIZATION AND PERSONALIZATION
REPORTING ENGINE
APPLICATIONS 109
MANAGE
USER ADMIN
SCHEME
SECURITY
CONTENT MGMT
SELECT
IETM
CONFIGURATION
MULTI-MEDIA CATALOG
ORDER
ORDER TRACKING
ORDER ENTRY
COLLABORATE
PROCUREMENT
DESIGN
SUPPORT
CONFIGURATION ADMINISTRATION
WARRANTEE ADMINISTRATION
CENTRAL DB REPOSITORY 108
META-DATA 186
SCHEME 180
REUSEABLE OBJECTS 182
SYNDICATION AND PUBLISHING SERVICE
118
116
110

FIG. 2

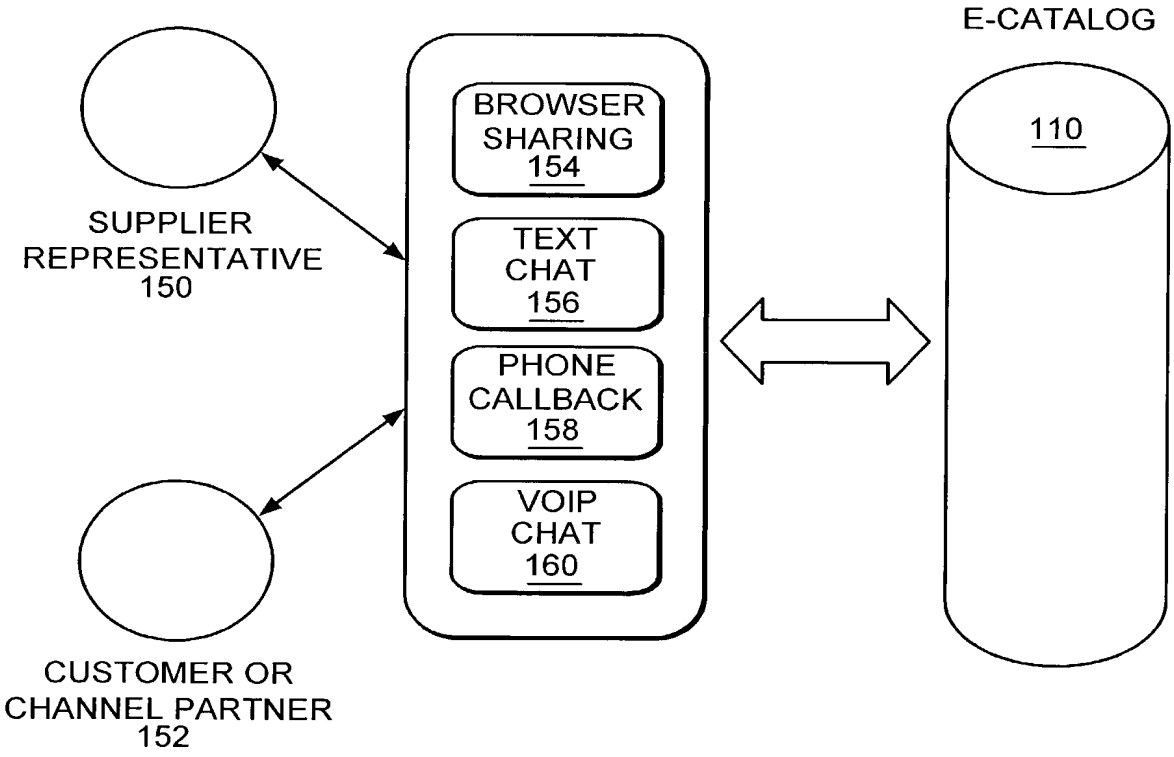

E-CATALOG
110
BROWSER SHARING 154
TEXT CHAT 156
PHONE CALLBACK 158
VOIP CHAT 160
SUPPLIER REPRESENTATIVE 150
CUSTOMER OR CHANNEL PARTNER 152

FIG. 3

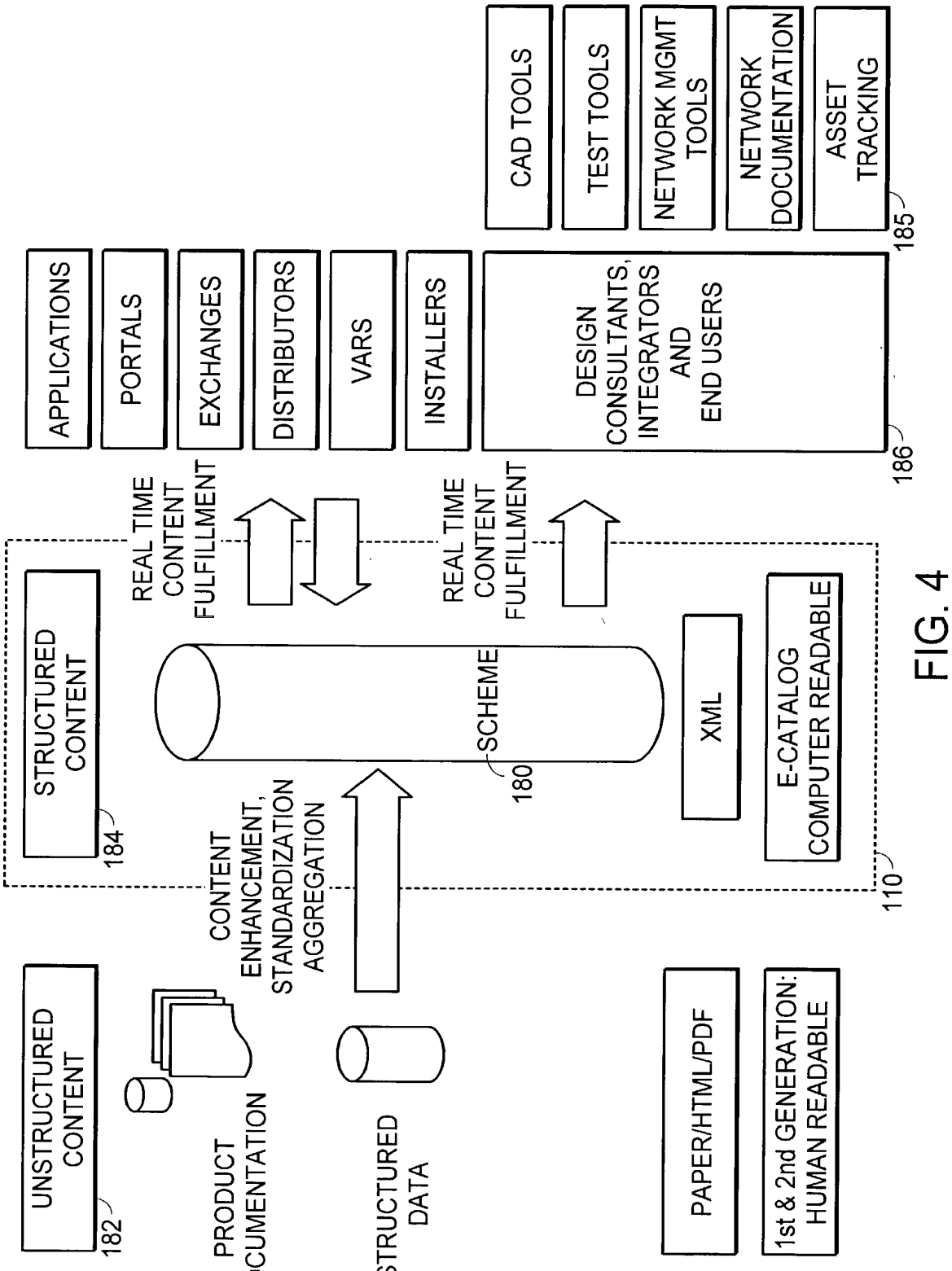

UNSTRUCTURED CONTENT
182
PRODUCT DOCUMENTATION
STRUCTURED DATA
CONTENT ENHANCEMENT, STANDARDIZATION AGGREGATION
STRUCTURED CONTENT
184
110
REAL TIME CONTENT FULFILLMENT
REAL TIME CONTENT FULFILLMENT
SCHEME
180
XML
E-CATALOG COMPUTER READABLE
PAPER/HTML/PDF
1st & 2nd GENERATION: HUMAN READABLE
APPLICATIONS
PORTALS
EXCHANGES
DISTRIBUTORS
VARS
INSTALLERS
DESIGN CONSULTANTS, INTEGRATORS AND END USERS
186
CAD TOOLS
TEST TOOLS
NETWORK MGMT TOOLS
NETWORK DOCUMENTATION
ASSET TRACKING
185

FIG. 4

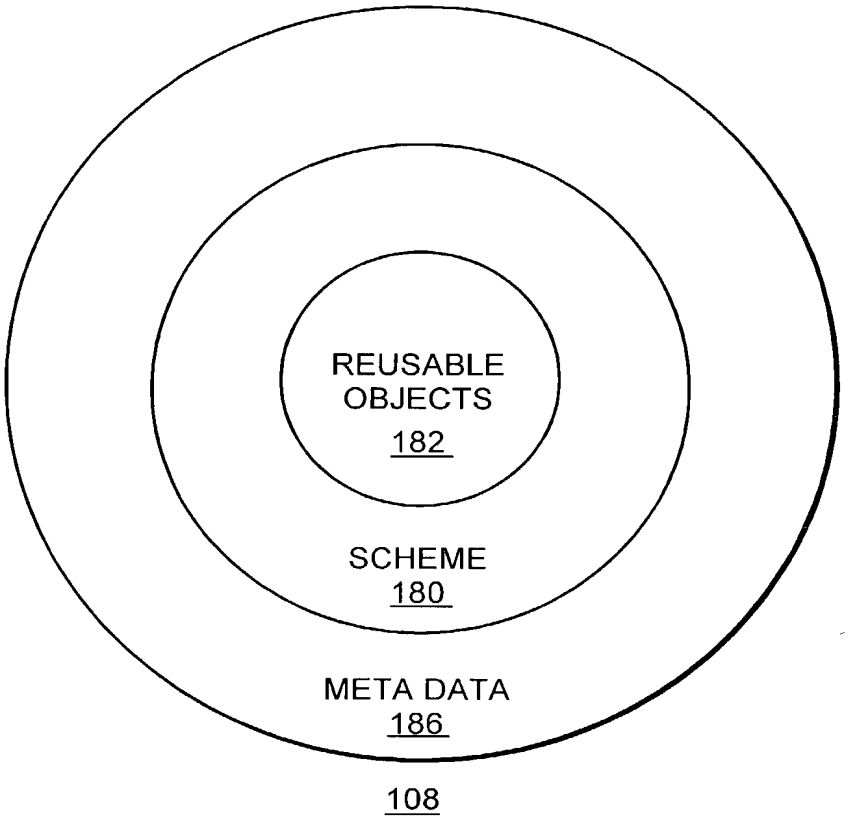


FIG. 5

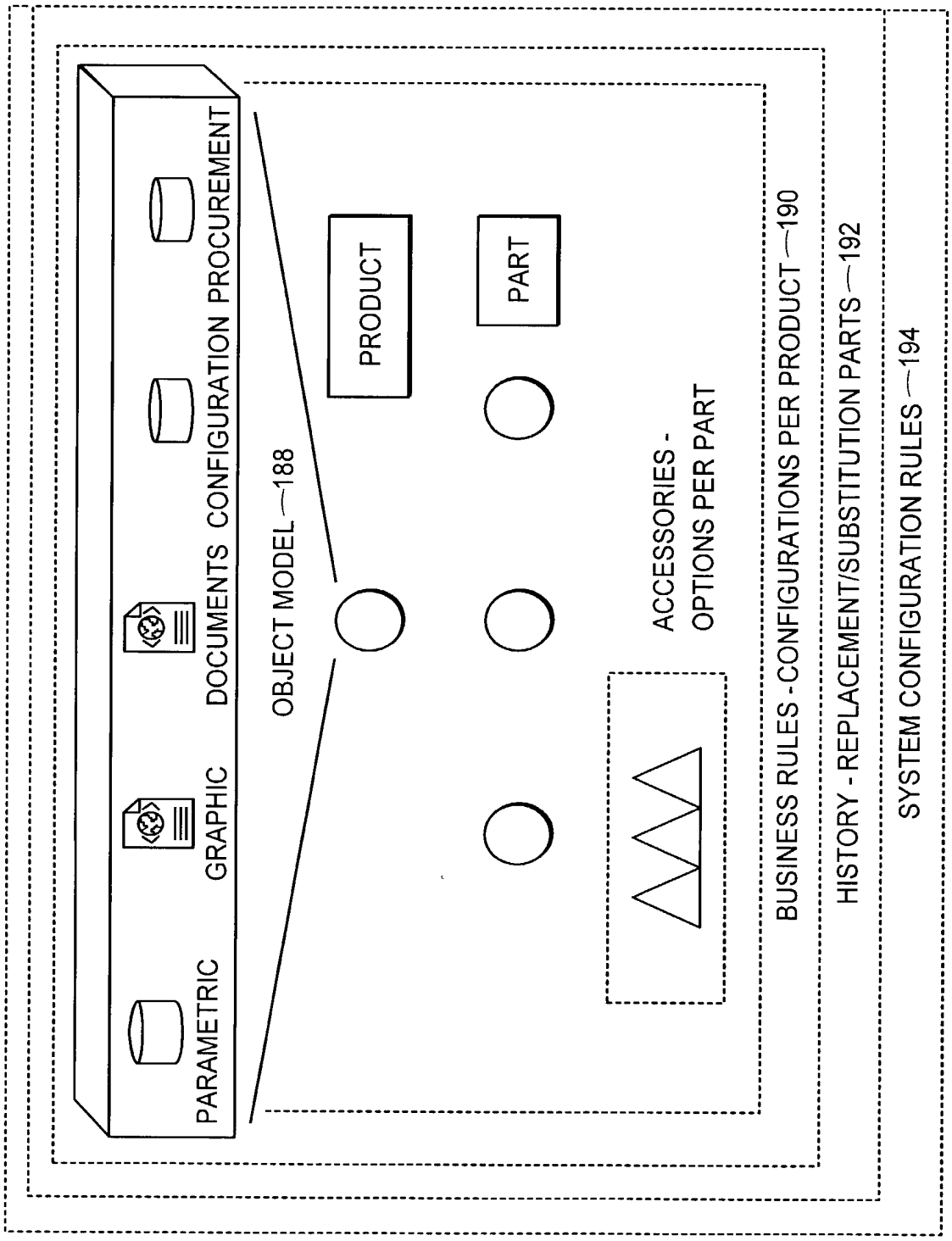

PARAMETRIC
GRAPHIC
DOCUMENTS
CONFIGURATION
PROCUREMENT
OBJECT MODEL —188
PRODUCT
PART
ACCESSORIES -
OPTIONS PER PART
BUSINESS RULES - CONFIGURATIONS PER PRODUCT —190
HISTORY - REPLACEMENT/SUBSTITUTION PARTS —192
SYSTEM CONFIGURATION RULES —194

FIG. 6

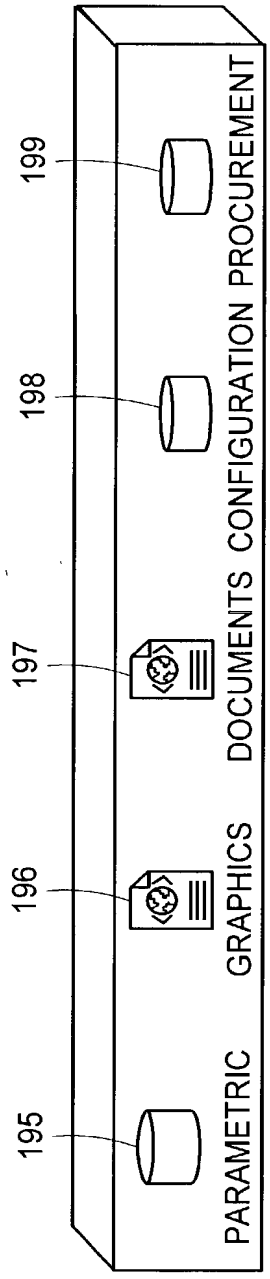

199
198
197
196
195
PROCUREMENT
CONFIGURATION
DOCUMENTS
GRAPHICS
PARAMETRIC
182

FIG. 7

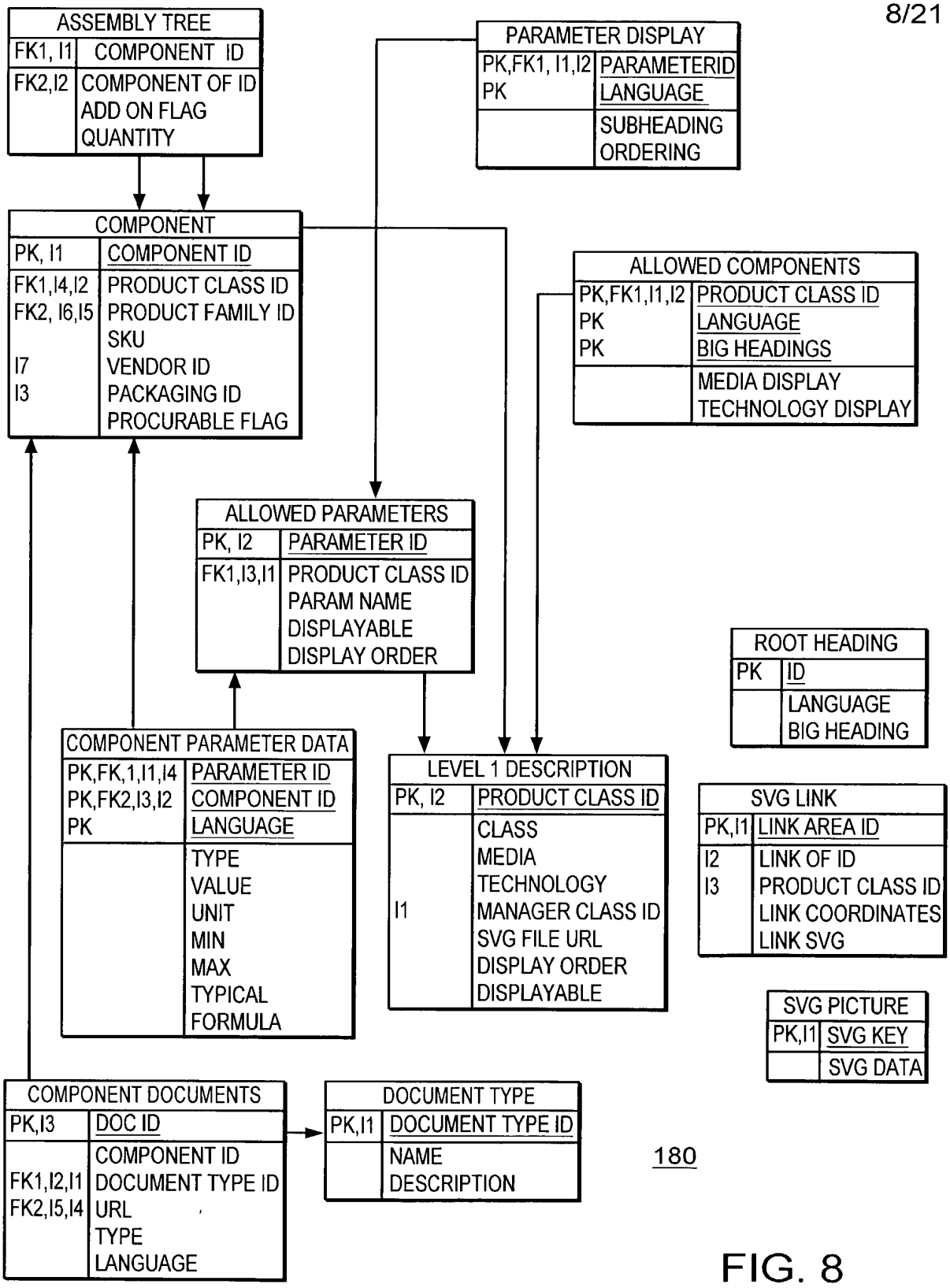

ASSEMBLY TREE
FK1, I1 COMPONENT ID
FK2,I2 COMPONENT OF ID
ADD ON FLAG
QUANTITY
PARAMETER DISPLAY
PK,FK1, I1,I2 PARAMETERID
PK LANGUAGE
SUBHEADING
ORDERING
COMPONENT
PK, I1 COMPONENT ID
FK1,I4,I2 PRODUCT CLASS ID
FK2, I6,I5 PRODUCT FAMILY ID
SKU
I7 VENDOR ID
I3 PACKAGING ID
PROCURABLE FLAG
ALLOWED COMPONENTS
PK,FK1,I1,I2 PRODUCT CLASS ID
PK LANGUAGE
PK BIG HEADINGS
MEDIA DISPLAY
TECHNOLOGY DISPLAY
ALLOWED PARAMETERS
PK, I2 PARAMETER ID
FK1,I3,I1 PRODUCT CLASS ID
PARAM NAME
DISPLAYABLE
DISPLAY ORDER
ROOT HEADING
PK ID
LANGUAGE
BIG HEADING
COMPONENT PARAMETER DATA
PK,FK,1,I1,I4 PARAMETER ID
PK,FK2,I3,I2 COMPONENT ID
PK LANGUAGE
TYPE
VALUE
UNIT
MIN
MAX
TYPICAL
FORMULA
LEVEL 1 DESCRIPTION
PK, I2 PRODUCT CLASS ID
CLASS
MEDIA
TECHNOLOGY
I1 MANAGER CLASS ID
SVG FILE URL
DISPLAY ORDER
DISPLAYABLE
SVG LINK
PK,I1 LINK AREA ID
I2 LINK OF ID
I3 PRODUCT CLASS ID
LINK COORDINATES
LINK SVG
SVG PICTURE
PK,I1 SVG KEY
SVG DATA
COMPONENT DOCUMENTS
PK,I3 DOC ID
COMPONENT ID
FK1,I2,I1 DOCUMENT TYPE ID
FK2,I5,I4 URL
TYPE
LANGUAGE
DOCUMENT TYPE
PK,I1 DOCUMENT TYPE ID
NAME
DESCRIPTION
180

FIG. 8

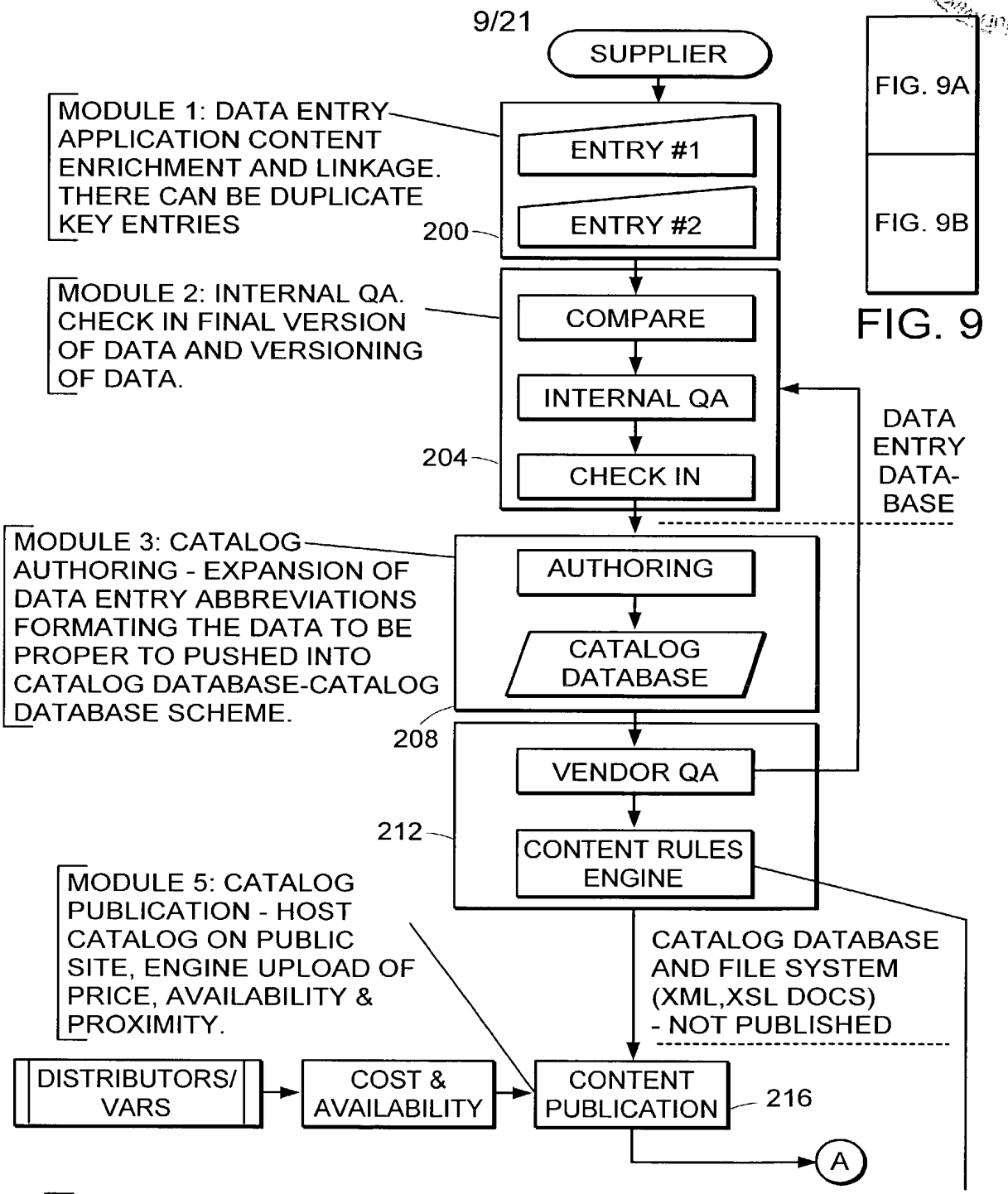


FIG. 9A

FIG. 9B

FIG. 9

MODULE 4: VENDOR QA: TO VALUATE THE FINISHED DATA AND TURN IT TO CHECK OUT AND BACK TO MODULE 2 IF IT IS NOT PROPER OR CORRECT. CONTENT RULES ENGINE VENDOR IS GOING TO SPECIFY THE USER CATEGORIES AND THE CONTENTS THEY CAN VIEW. THIS SETUP THE CONTENT VIEW RULES WHICH WILL BE FOLLOWED AS AN END USER ENTERS THE SYSTEM.

FIG. 9A

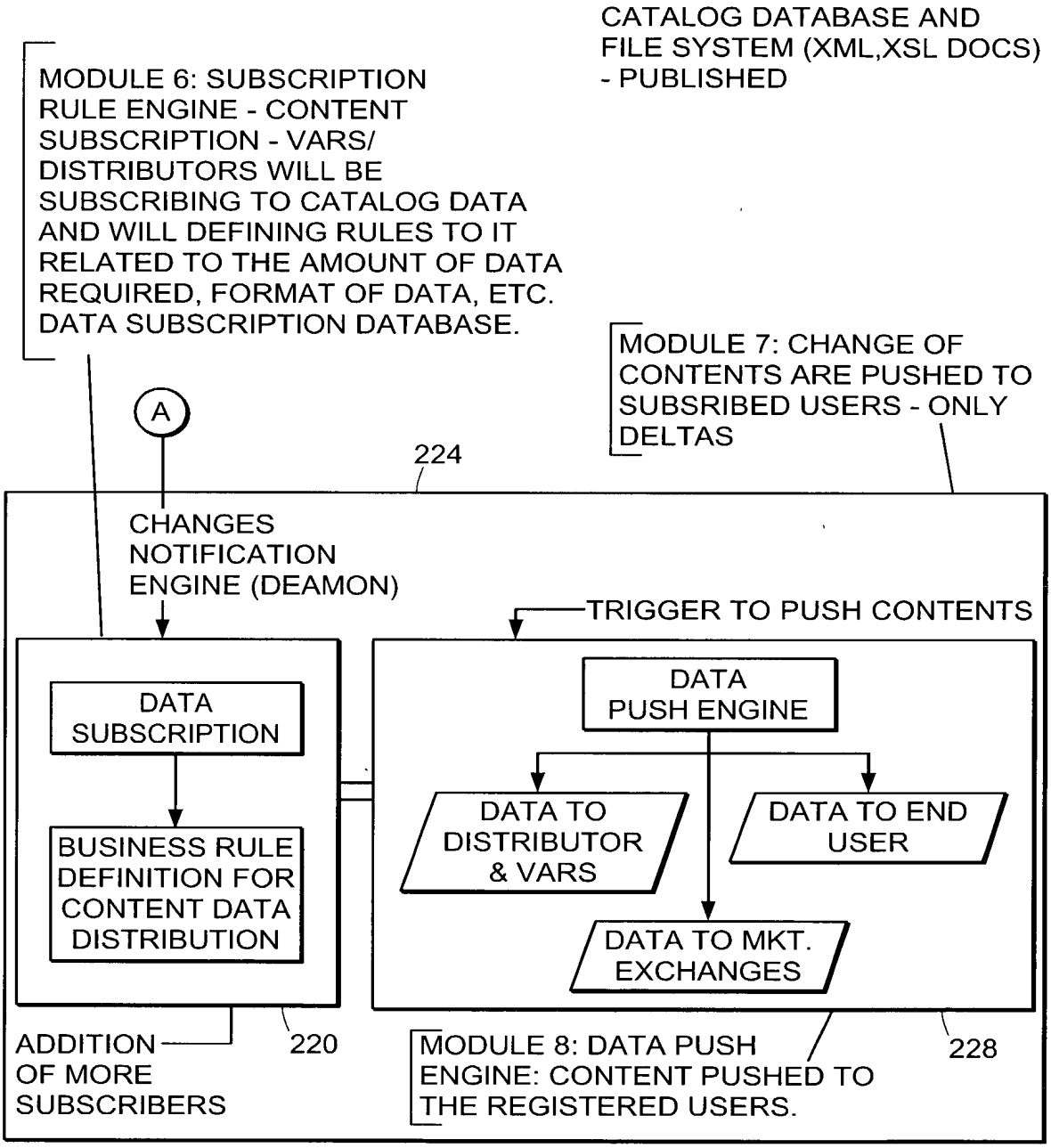

CATALOG DATABASE AND FILE SYSTEM (XML,XSL DOCS) - PUBLISHED
MODULE 6: SUBSCRIPTION RULE ENGINE - CONTENT SUBSCRIPTION - VARS/ DISTRIBUTORS WILL BE SUBSCRIBING TO CATALOG DATA AND WILL DEFINING RULES TO IT RELATED TO THE AMOUNT OF DATA REQUIRED, FORMAT OF DATA, ETC. DATA SUBSCRIPTION DATABASE.
MODULE 7: CHANGE OF CONTENTS ARE PUSHED TO SUBSRIBED USERS - ONLY DELTAS
A
224
CHANGES NOTIFICATION ENGINE (DEAMON)
TRIGGER TO PUSH CONTENTS
DATA SUBSCRIPTION
BUSINESS RULE DEFINITION FOR CONTENT DATA DISTRIBUTION
DATA PUSH ENGINE
DATA TO DISTRIBUTOR & VARS
DATA TO END USER
DATA TO MKT. EXCHANGES
ADDITION OF MORE SUBSCRIBERS
220
MODULE 8: DATA PUSH ENGINE: CONTENT PUSHED TO THE REGISTERED USERS.
228

FIG. 9B

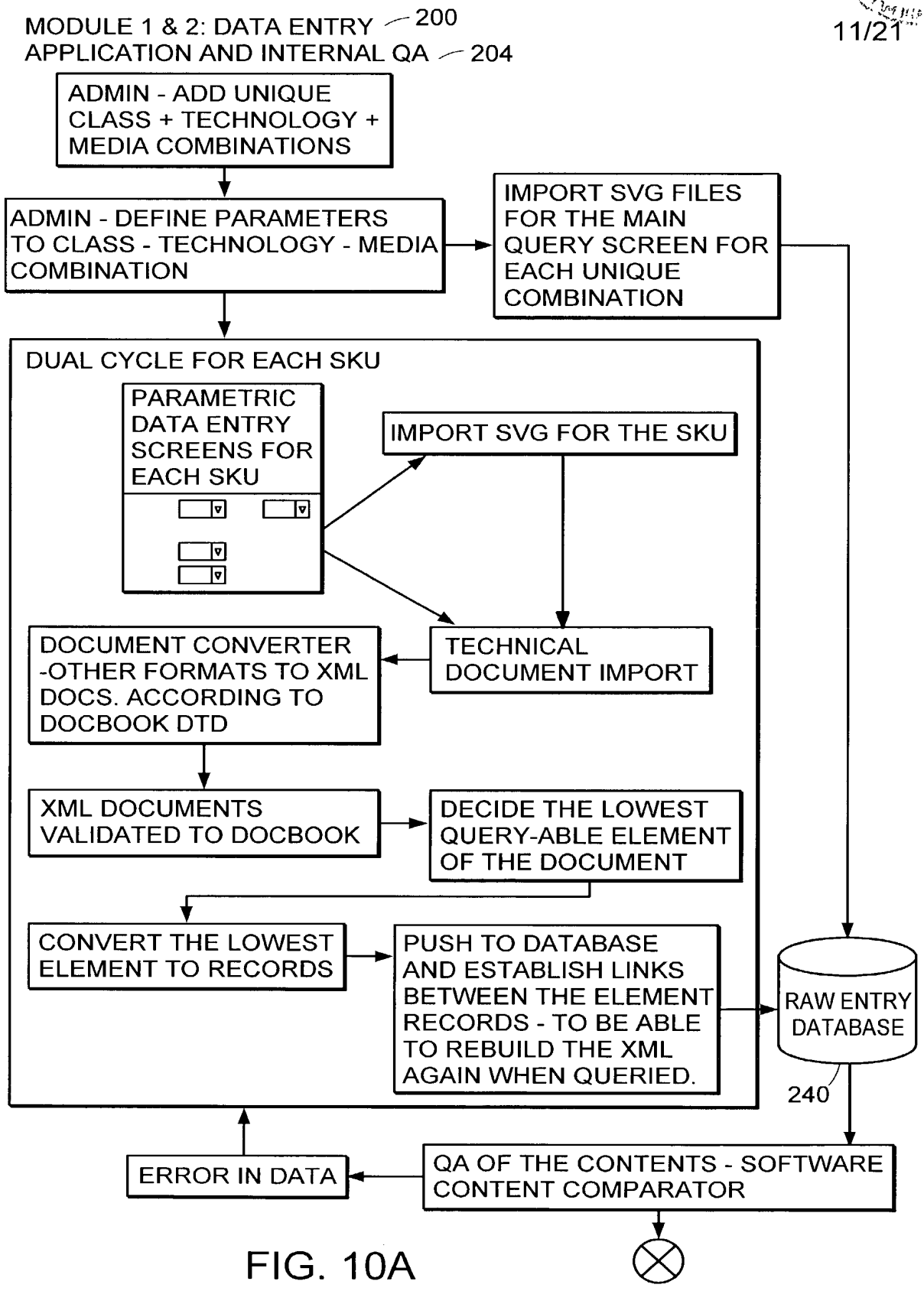

MODULE 1 & 2: DATA ENTRY APPLICATION AND INTERNAL QA
200
204
ADMIN - ADD UNIQUE CLASS + TECHNOLOGY + MEDIA COMBINATIONS
ADMIN - DEFINE PARAMETERS TO CLASS - TECHNOLOGY - MEDIA COMBINATION
IMPORT SVG FILES FOR THE MAIN QUERY SCREEN FOR EACH UNIQUE COMBINATION
DUAL CYCLE FOR EACH SKU
PARAMETRIC DATA ENTRY SCREENS FOR EACH SKU
IMPORT SVG FOR THE SKU
DOCUMENT CONVERTER -OTHER FORMATS TO XML DOCS. ACCORDING TO DOCBOOK DTD
TECHNICAL DOCUMENT IMPORT
XML DOCUMENTS VALIDATED TO DOCBOOK
DECIDE THE LOWEST QUERY-ABLE ELEMENT OF THE DOCUMENT
CONVERT THE LOWEST ELEMENT TO RECORDS
PUSH TO DATABASE AND ESTABLISH LINKS BETWEEN THE ELEMENT RECORDS - TO BE ABLE TO REBUILD THE XML AGAIN WHEN QUERIED.
RAW ENTRY DATABASE
240
ERROR IN DATA
QA OF THE CONTENTS - SOFTWARE CONTENT COMPARATOR

FIG. 10A

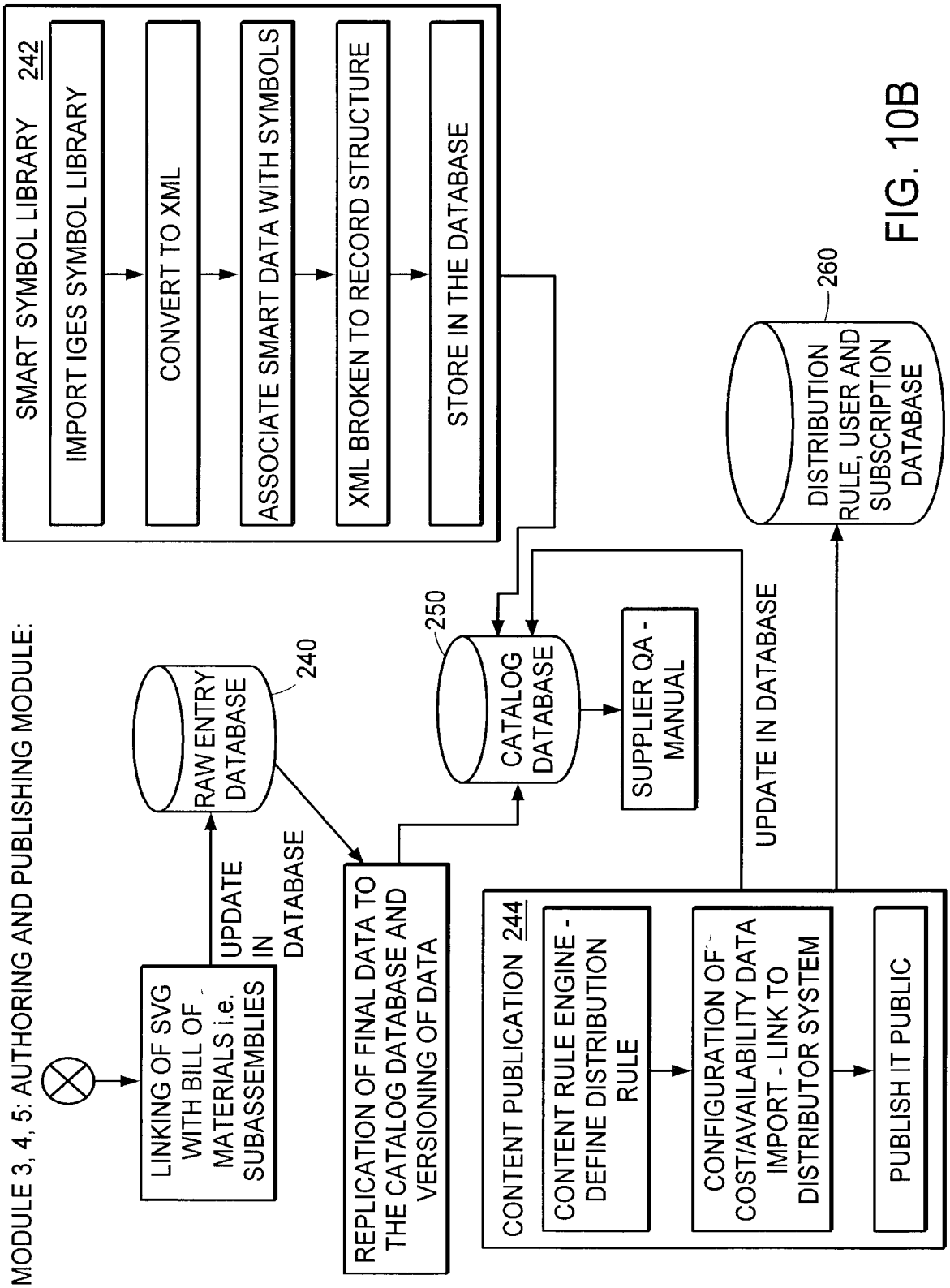

MODULE 3, 4, 5: AUTHORING AND PUBLISHING MODULE:
LINKING OF SVG WITH BILL OF MATERIALS i.e. SUBASSEMBLIES
UPDATE IN DATABASE
RAW ENTRY DATABASE
240
REPLICATION OF FINAL DATA TO THE CATALOG DATABASE AND VERSIONING OF DATA
CATALOG DATABASE
250
SUPPLIER QA - MANUAL
UPDATE IN DATABASE
SMART SYMBOL LIBRARY 242
IMPORT IGES SYMBOL LIBRARY
CONVERT TO XML
ASSOCIATE SMART DATA WITH SYMBOLS
XML BROKEN TO RECORD STRUCTURE
STORE IN THE DATABASE
DISTRIBUTION RULE, USER AND SUBSCRIPTION DATABASE
260
CONTENT PUBLICATION 244
CONTENT RULE ENGINE - DEFINE DISTRIBUTION RULE
CONFIGURATION OF COST/AVAILABILITY DATA IMPORT - LINK TO DISTRIBUTOR SYSTEM
PUBLISH IT PUBLIC

FIG. 10B

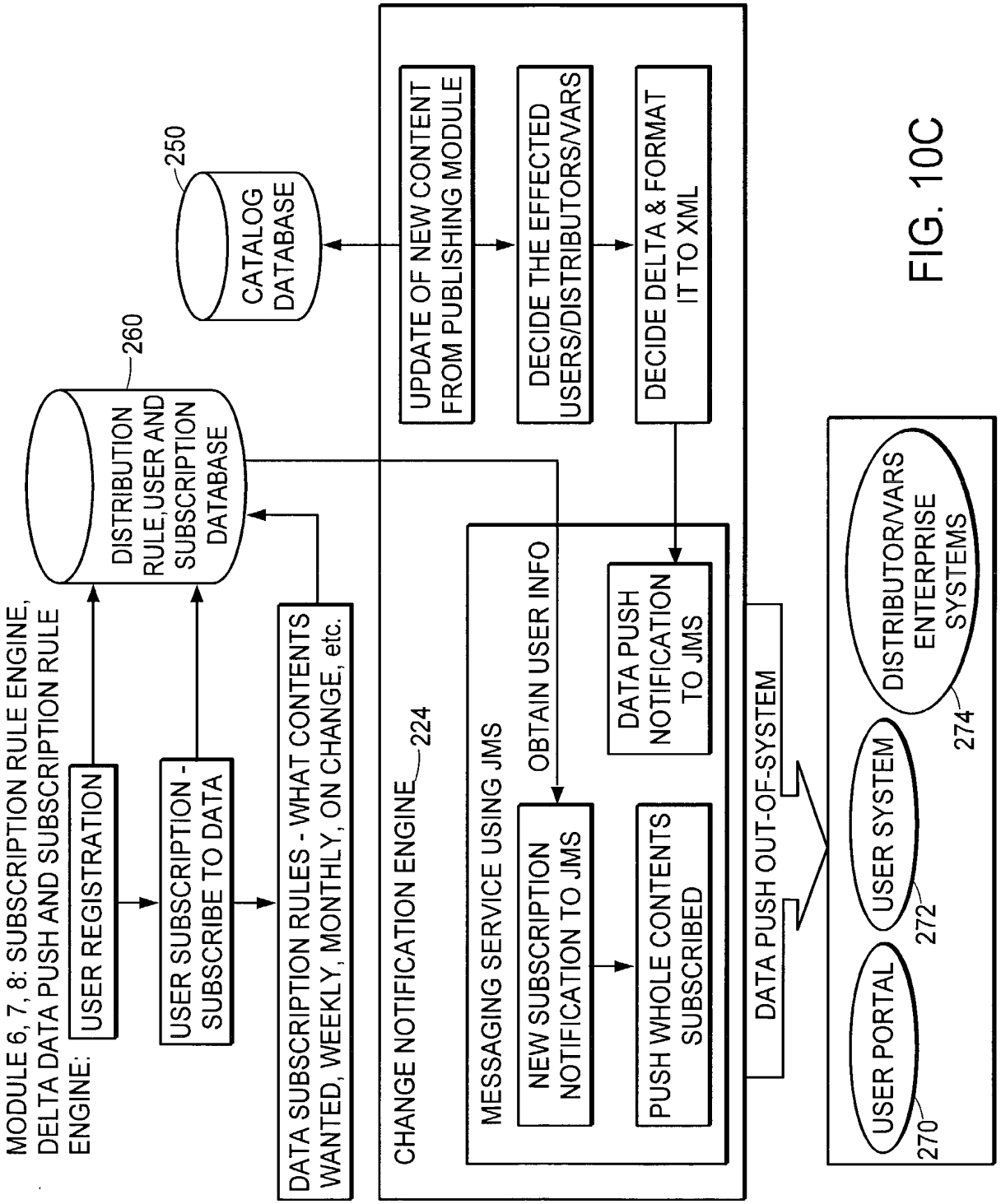
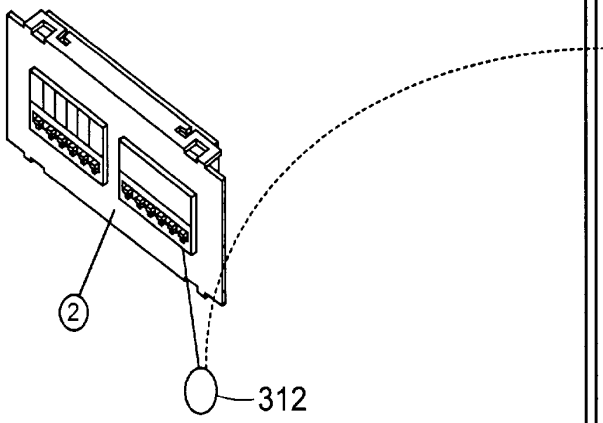

MODULE 6, 7, 8: SUBSCRIPTION RULE ENGINE, DELTA DATA PUSH AND SUBSCRIPTION RULE ENGINE:
USER REGISTRATION
USER SUBSCRIPTION - SUBSCRIBE TO DATA
DATA SUBSCRIPTION RULES - WHAT CONTENTS WANTED, WEEKLY, MONTHLY, ON CHANGE, etc.
DISTRIBUTION RULE,USER AND SUBSCRIPTION DATABASE
260
CATALOG DATABASE
250
CHANGE NOTIFICATION ENGINE
224
UPDATE OF NEW CONTENT FROM PUBLISHING MODULE
DECIDE THE EFFECTED USERS/DISTRIBUTORS/VARS
DECIDE DELTA & FORMAT IT TO XML
MESSAGING SERVICE USING JMS
OBTAIN USER INFO
NEW SUBSCRIPTION NOTIFICATION TO JMS
PUSH WHOLE CONTENTS SUBSCRIBED
DATA PUSH NOTIFICATION TO JMS
DATA PUSH OUT-OF-SYSTEM
USER PORTAL
270
USER SYSTEM
272
DISTRIBUTOR/VARS ENTERPRISE SYSTEMS
274

FIG. 10C

General				Module								Chassis						
Attribute	Part #	Product Family	Product Description	Hinged	# of ports per module	Tally Thruput Level	EIA/TIA Category Rating	ISO Category Rating	Anixter Levels	VIP Level	Color	Total # of Parts	Modular	Hinged	Labels	Front Wire Management	Rear Wire Management	
Unit						Mbs												
Sort	∧∨	∧∨	∧∨	∧∨	∧∨	∧∨	∧∨	∧∨	∧∨	∧∨	∧∨	∧∨	∧∨	∧∨	∧∨	∧∨	∧∨	
Add to BOM	OR-862000304	GigaMo+	CAT6 Modular RJ-45 TO 110 Panel	No	6	100	CAT6		Level 7		Black	24	Modular	No	Yes	Yes	Yes	B
Add to BOM	OR-862000334	GigaMo+	CAT6 Modular RJ-45 TO 110 Panel	No	6	100	CAT6		Level 7		Black	48	Modular	No	Yes	Yes	Yes	B
Add to BOM	OR-862000904	GigaMo+	CAT6 Modular RJ-45 TO 110 Panel	No	6	100	CAT6		Level 7		Black	24	Modular	No	Yes	Yes	Yes	B
Add to BOM	OR-862000912	GigaMo+	CAT6 Modular RJ-45 TO 110 Panel	No	6	100	CAT6		Level 7		Black	48	Modular	No	Yes	Yes	Yes	B
Add to BOM	OR-862000983	GigaMo+	CAT6 Modular RJ-45 TO 110 Panel	No	6	100	CAT6		Level 7		Black	36	Modular	No	Yes	Yes	Yes	B

Zoom %age 100% Reference Material Select a document BOM ◉ Add Ons ○

310



Link	Part #	Part Qty.	Description
1	md2	4	Modular
2	ch11111	1	Chassis
3	hk1	1	Hinge
4	fwm1	1	Front Wire Management
5	rwm1	1	Rear Wire Management
6	m2	1	Mounting
		24	Labels

300

FIG. 11

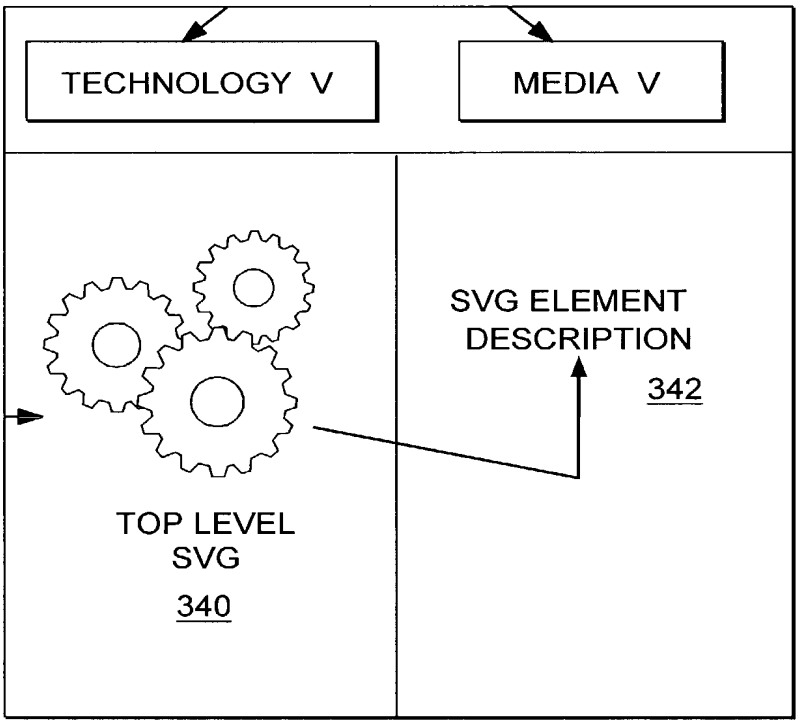

TECHNOLOGY V
MEDIA V
SVG ELEMENT DESCRIPTION
342
TOP LEVEL SVG
340

FIG. 12

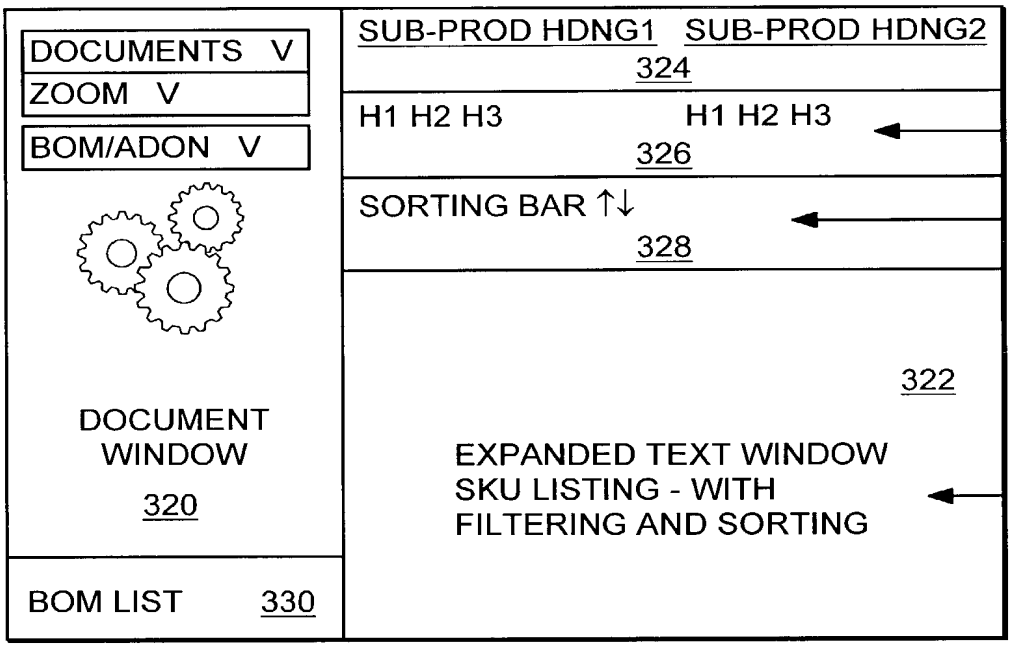

DOCUMENTS V
ZOOM V
BOM/ADON V
DOCUMENT WINDOW
320
BOM LIST 330
SUB-PROD HDNG1 SUB-PROD HDNG2
324
H1 H2 H3 H1 H2 H3
326
SORTING BAR ↑↓
328
322
EXPANDED TEXT WINDOW
SKU LISTING - WITH
FILTERING AND SORTING

FIG. 13

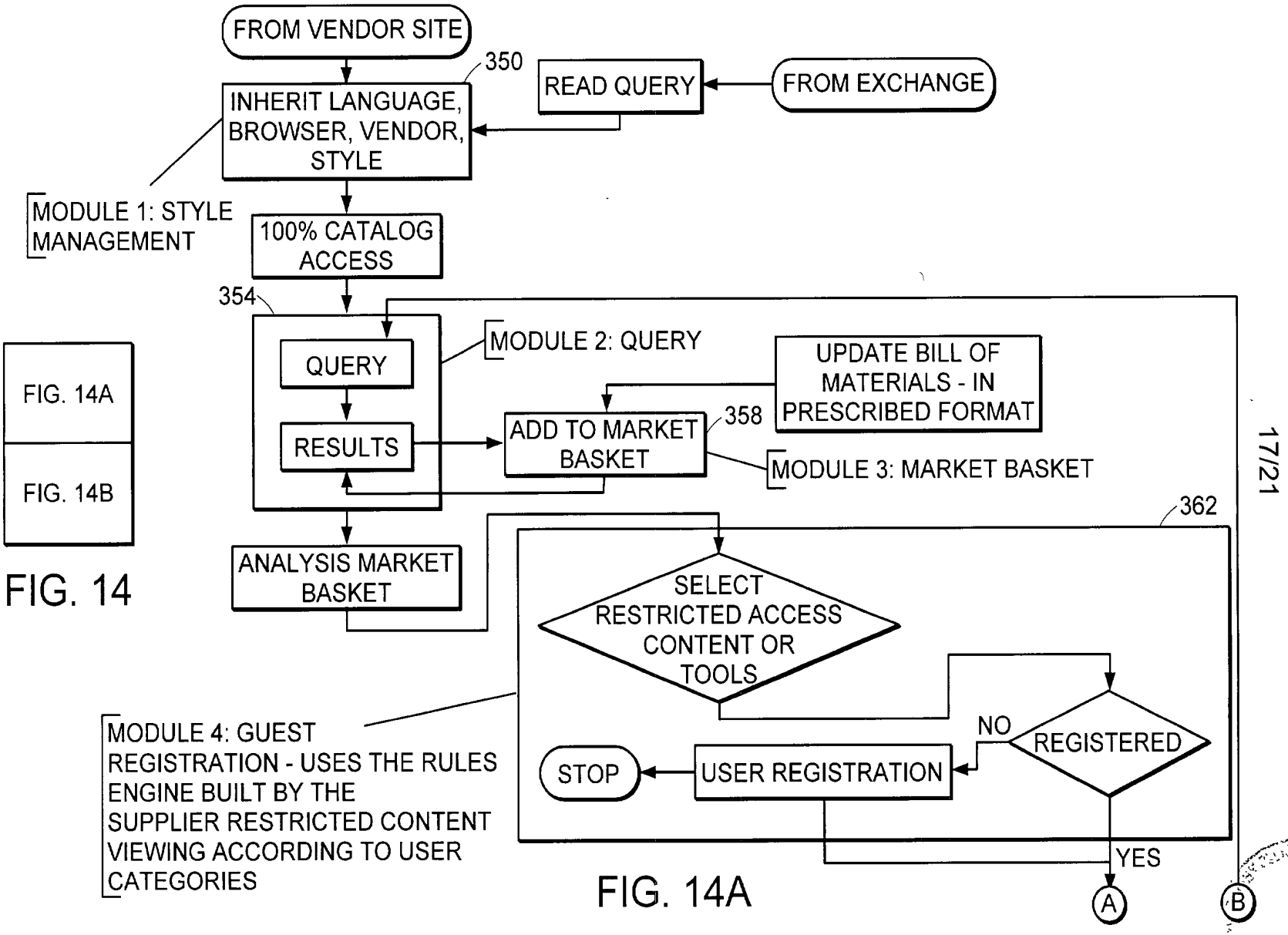


FIG. 14A

FIG. 14A

FIG. 14B

FIG. 14

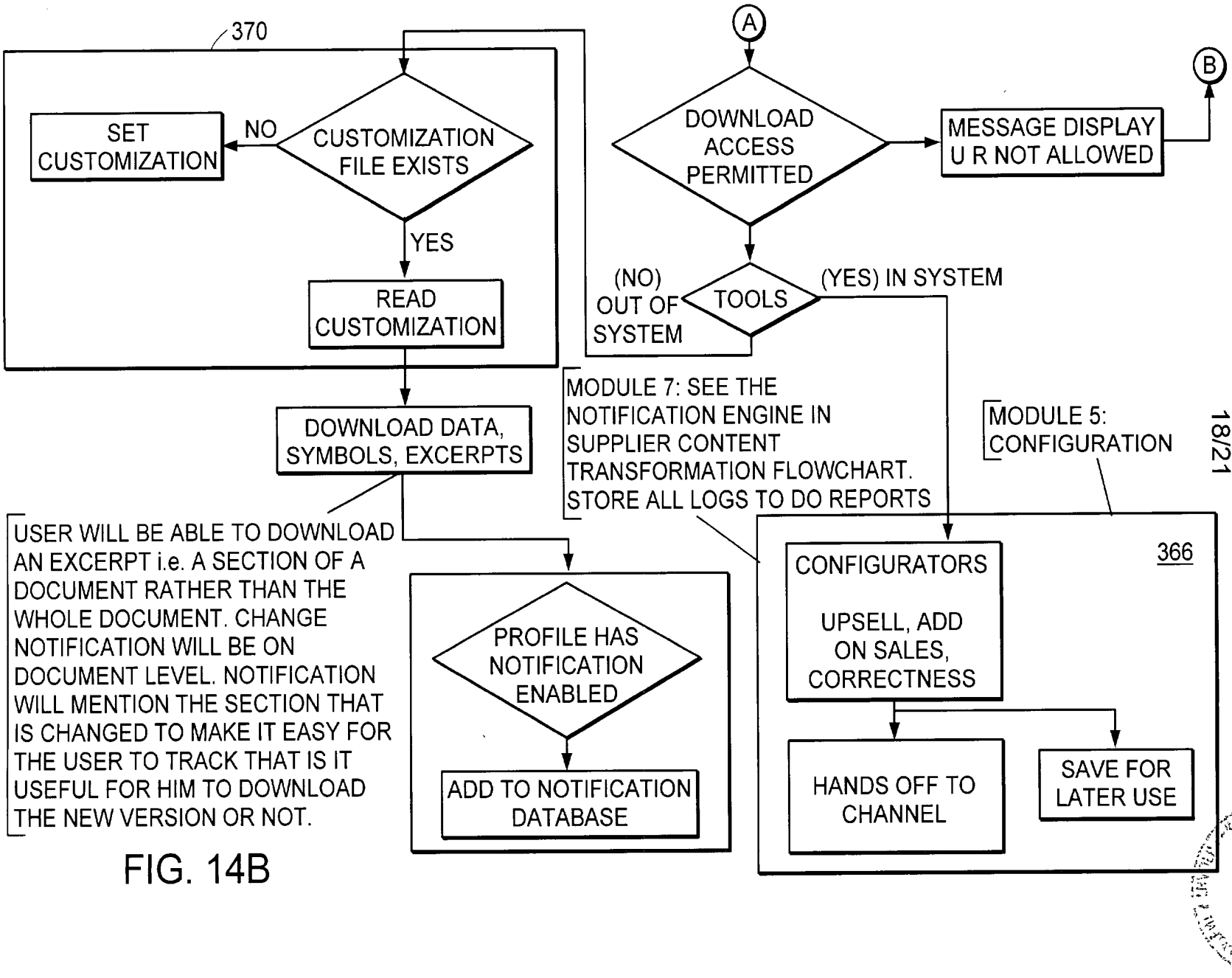

370
SET CUSTOMIZATION
NO
CUSTOMIZATION FILE EXISTS
YES
READ CUSTOMIZATION
DOWNLOAD DATA, SYMBOLS, EXCERPTS
USER WILL BE ABLE TO DOWNLOAD AN EXCERPT i.e. A SECTION OF A DOCUMENT RATHER THAN THE WHOLE DOCUMENT. CHANGE NOTIFICATION WILL BE ON DOCUMENT LEVEL. NOTIFICATION WILL MENTION THE SECTION THAT IS CHANGED TO MAKE IT EASY FOR THE USER TO TRACK THAT IS IT USEFUL FOR HIM TO DOWNLOAD THE NEW VERSION OR NOT.
PROFILE HAS NOTIFICATION ENABLED
ADD TO NOTIFICATION DATABASE
A
DOWNLOAD ACCESS PERMITTED
B
MESSAGE DISPLAY U R NOT ALLOWED
(NO) OUT OF SYSTEM
TOOLS
(YES) IN SYSTEM
MODULE 7: SEE THE NOTIFICATION ENGINE IN SUPPLIER CONTENT TRANSFORMATION FLOWCHART. STORE ALL LOGS TO DO REPORTS
MODULE 5: CONFIGURATION
366
CONFIGURATORS
UPSELL, ADD ON SALES, CORRECTNESS
HANDS OFF TO CHANNEL
SAVE FOR LATER USE

FIG. 14B

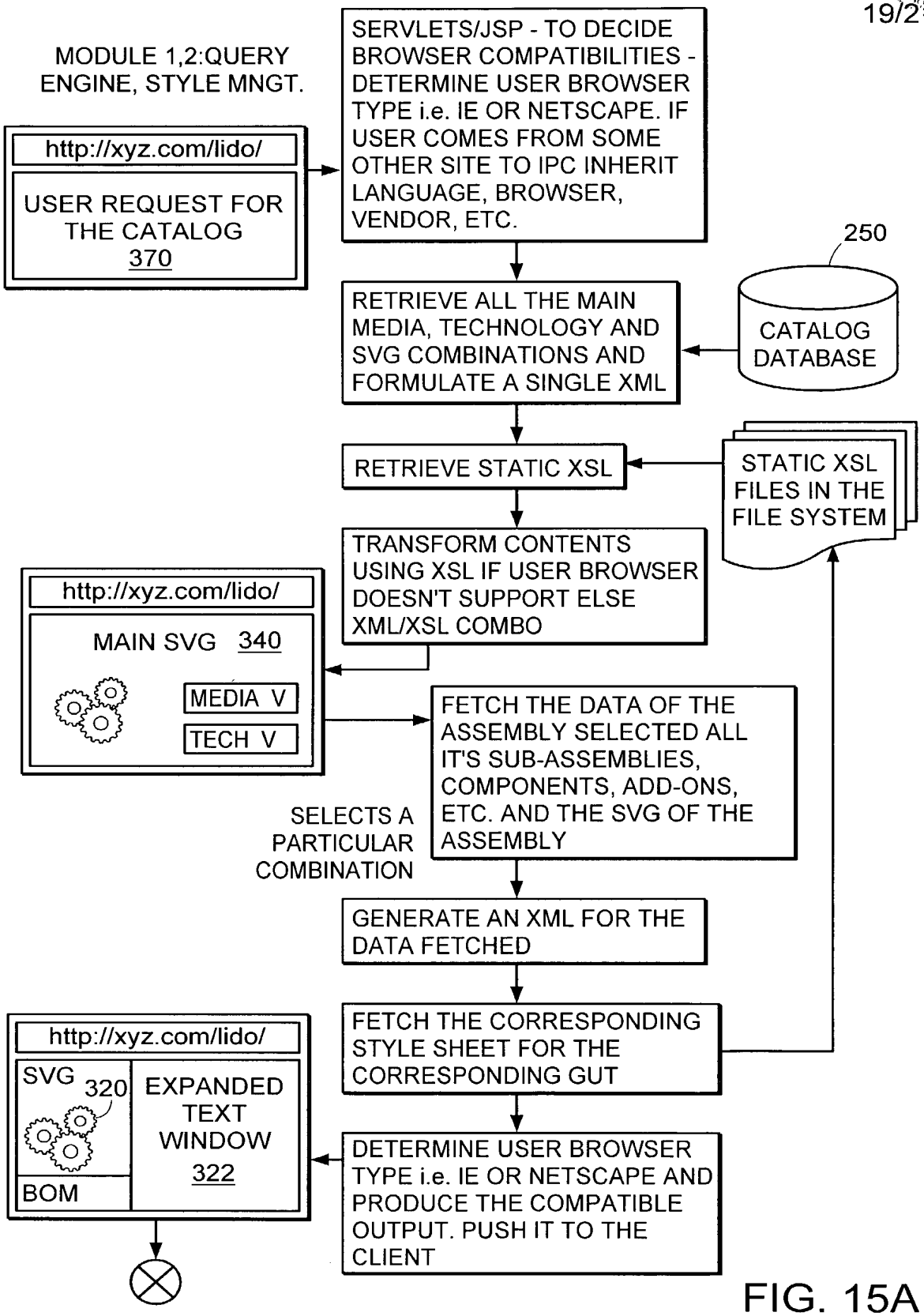

MODULE 1,2:QUERY ENGINE, STYLE MNGT.
http://xyz.com/lido/
USER REQUEST FOR THE CATALOG 370
SERVLETS/JSP - TO DECIDE BROWSER COMPATIBILITIES - DETERMINE USER BROWSER TYPE i.e. IE OR NETSCAPE. IF USER COMES FROM SOME OTHER SITE TO IPC INHERIT LANGUAGE, BROWSER, VENDOR, ETC.
250
CATALOG DATABASE
RETRIEVE ALL THE MAIN MEDIA, TECHNOLOGY AND SVG COMBINATIONS AND FORMULATE A SINGLE XML
RETRIEVE STATIC XSL
STATIC XSL FILES IN THE FILE SYSTEM
TRANSFORM CONTENTS USING XSL IF USER BROWSER DOESN'T SUPPORT ELSE XML/XSL COMBO
http://xyz.com/lido/
MAIN SVG 340
MEDIA V
TECH V
FETCH THE DATA OF THE ASSEMBLY SELECTED ALL IT'S SUB-ASSEMBLIES, COMPONENTS, ADD-ONS, ETC. AND THE SVG OF THE ASSEMBLY
SELECTS A PARTICULAR COMBINATION
GENERATE AN XML FOR THE DATA FETCHED
FETCH THE CORRESPONDING STYLE SHEET FOR THE CORRESPONDING GUT
http://xyz.com/lido/
SVG 320
BOM
EXPANDED TEXT WINDOW 322
DETERMINE USER BROWSER TYPE i.e. IE OR NETSCAPE AND PRODUCE THE COMPATIBLE OUTPUT. PUSH IT TO THE CLIENT

FIG. 15A

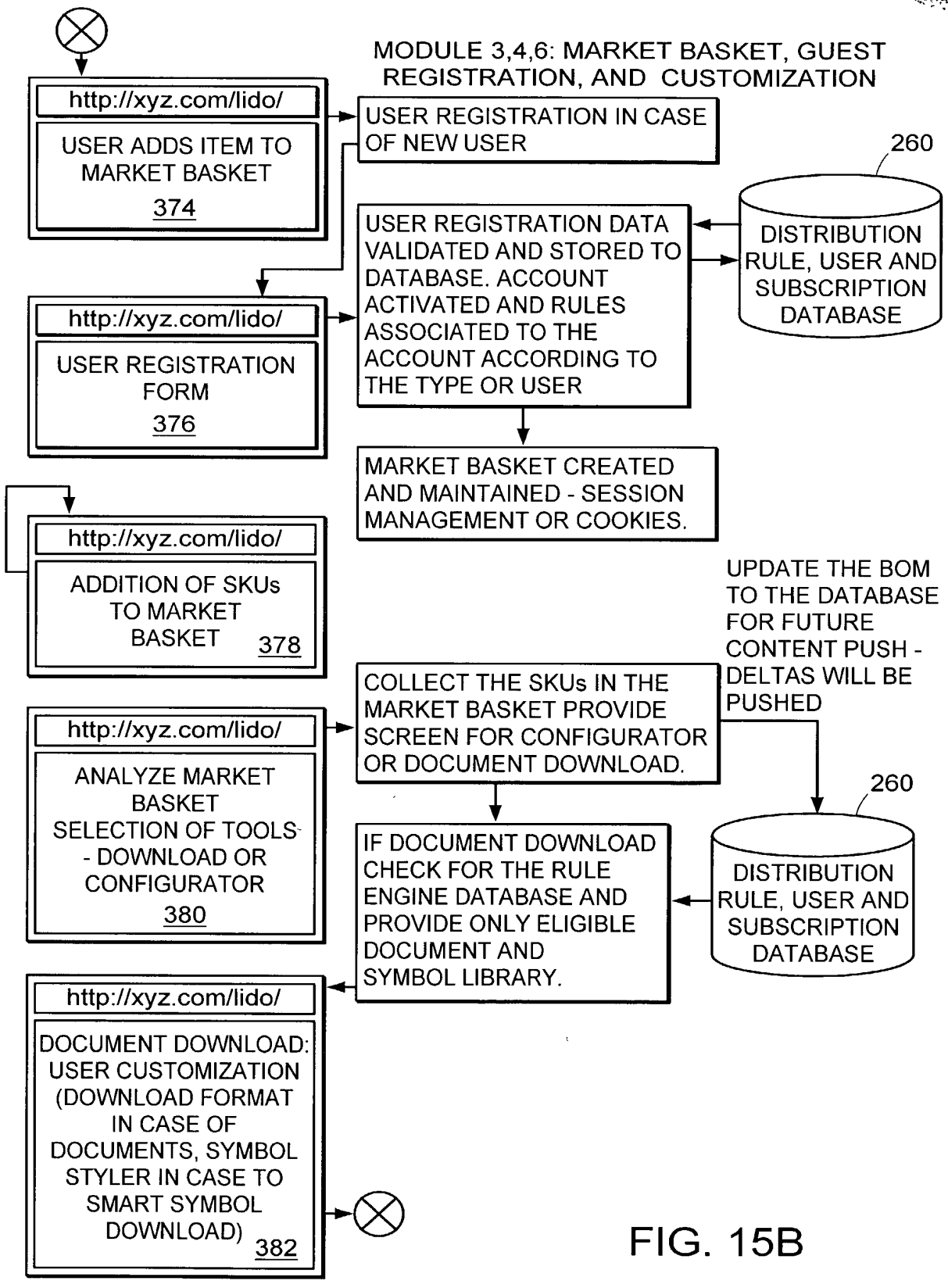

MODULE 3,4,6: MARKET BASKET, GUEST REGISTRATION, AND CUSTOMIZATION
http://xyz.com/lido/
USER ADDS ITEM TO MARKET BASKET
374
USER REGISTRATION IN CASE OF NEW USER
260
USER REGISTRATION DATA VALIDATED AND STORED TO DATABASE. ACCOUNT ACTIVATED AND RULES ASSOCIATED TO THE ACCOUNT ACCORDING TO THE TYPE OR USER
DISTRIBUTION RULE, USER AND SUBSCRIPTION DATABASE
http://xyz.com/lido/
USER REGISTRATION FORM
376
MARKET BASKET CREATED AND MAINTAINED - SESSION MANAGEMENT OR COOKIES.
http://xyz.com/lido/
ADDITION OF SKUs TO MARKET BASKET
378
UPDATE THE BOM TO THE DATABASE FOR FUTURE CONTENT PUSH - DELTAS WILL BE PUSHED
COLLECT THE SKUs IN THE MARKET BASKET PROVIDE SCREEN FOR CONFIGURATOR OR DOCUMENT DOWNLOAD.
260
http://xyz.com/lido/
ANALYZE MARKET BASKET SELECTION OF TOOLS - DOWNLOAD OR CONFIGURATOR
380
IF DOCUMENT DOWNLOAD CHECK FOR THE RULE ENGINE DATABASE AND PROVIDE ONLY ELIGIBLE DOCUMENT AND SYMBOL LIBRARY.
DISTRIBUTION RULE, USER AND SUBSCRIPTION DATABASE
http://xyz.com/lido/
DOCUMENT DOWNLOAD: USER CUSTOMIZATION (DOWNLOAD FORMAT IN CASE OF DOCUMENTS, SYMBOL STYLER IN CASE TO SMART SYMBOL DOWNLOAD)
382

FIG. 15B

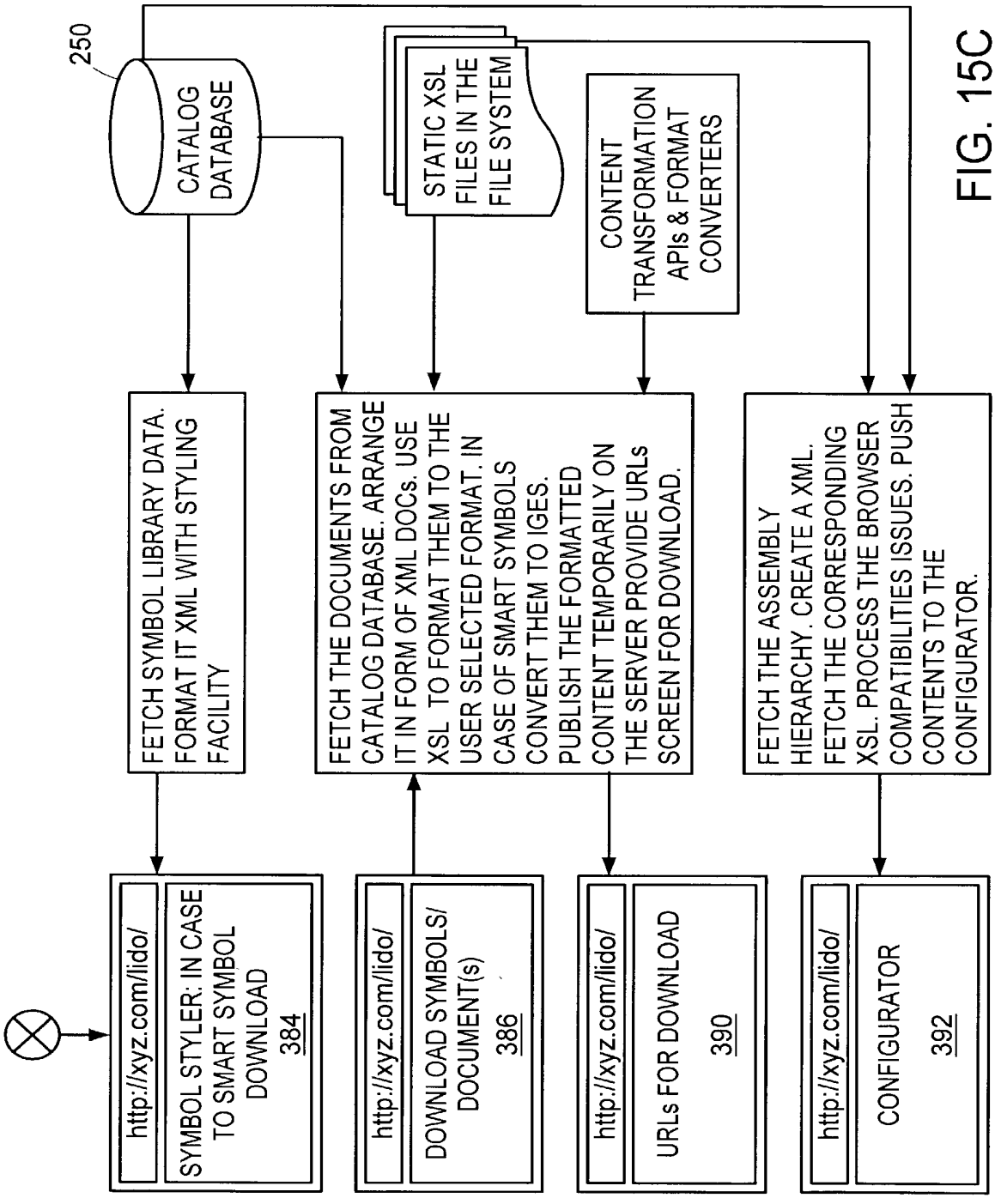

250
CATALOG DATABASE
STATIC XSL FILES IN THE FILE SYSTEM
CONTENT TRANSFORMATION APIs & FORMAT CONVERTERS
FETCH SYMBOL LIBRARY DATA. FORMAT IT XML WITH STYLING FACILITY
FETCH THE DOCUMENTS FROM CATALOG DATABASE. ARRANGE IT IN FORM OF XML DOCs. USE XSL TO FORMAT THEM TO THE USER SELECTED FORMAT. IN CASE OF SMART SYMBOLS CONVERT THEM TO IGES. PUBLISH THE FORMATTED CONTENT TEMPORARILY ON THE SERVER PROVIDE URLs SCREEN FOR DOWNLOAD.
FETCH THE ASSEMBLY HIERARCHY. CREATE A XML. FETCH THE CORRESPONDING XSL. PROCESS THE BROWSER COMPATIBILITIES ISSUES. PUSH CONTENTS TO THE CONFIGURATOR.
http://xyz.com/lido/
SYMBOL STYLER: IN CASE TO SMART SYMBOL DOWNLOAD
384
http://xyz.com/lido/
DOWNLOAD SYMBOLS/ DOCUMENT(s)
386
http://xyz.com/lido/
URLs FOR DOWNLOAD
390
http://xyz.com/lido/
CONFIGURATOR
392

FIG. 15C